CLEAN COPY OF AMENDED CLAIMS

- 1. A computer model for describing a performance of a segmented transmission line having a plurality of segments, each segment having a transfer function, comprising:
- (a) means for storing at least one characteristic value the transfer function of a respective segment of the segmented transmission line;
- (b) means for storing information relating to at least one algorithm, said algorithm being for determining the effect of a respective characteristic value and sequence of transmission line segments on a performance of the overall segmented transmission line; and
- (c) means for adjusting a characteristic value, whereby a set of characteristic values is defined for respective transmission line segments, having an optimized performance in view of the at least one algorithm.
- 8. The model according to claim 1, wherein the respective characteristic values are non-incrementally distributed across a range.
- 9. The model according to claim 1, wherein the respective characteristic values are non-monotonically distributed across a range.
- 17. The method according to claim 10, wherein a variation in respective segment characteristics is distributed non-incrementally.
- 18. The method according to claim 10, wherein a variation in respective segment characteristics is distributed non-monotonically.
- 25. The system according to claim 22, wherein the segmented transmission line comprises an air-spaced coaxial transmission line adapted for transmitting an RF signal, the characteristic value being a length of a respective transmission line segment, the optimized respective characteristic values being non-incrementally and non-monotonically distributed across a range.